

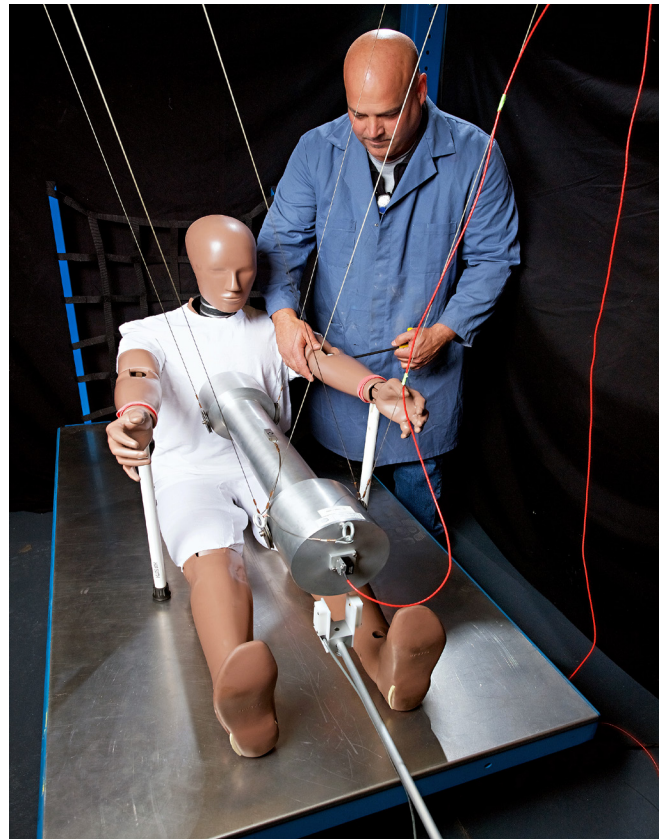
## GROUND VEHICLE SURVIVABILITY & PROTECTION (GVSP)

### ANTHROPOMORPHIC TEST DEVICE CERTIFICATION LABORATORY (ATD)

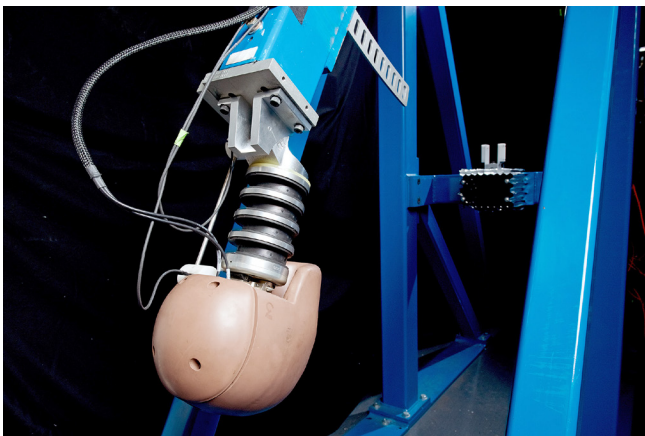
The Anthropomorphic Test Device (ATD) Certification Lab enables GVSC to certify ATDs and the Warrior Injury Assessment Manikin (WIAMan) in-house.

This lab has the experience to record data and test using ATDs and the WIAMan, thanks to subject matter experts who have been on the WIAMan development team from the very beginning. The ATD Lab owns 12 dummies, which they can certify, repair, and maintain after each test. This saves up to 6-8 weeks of time that would be required if they had to be sent out, reducing cost and downtime between testing events.

The ATD Lab is located within the Occupant Protection Laboratory (OPL), a full-service test facility with the resources, capabilities, equipment, and partnerships needed to perform dynamic impact/impulse testing on components, subsystems, or systems within six distinct testing capabilities. ATDs are utilized in multiple labs within the OPL, including the Crew Compartment Underbody Blast Simulator, Sub System Drop Tower, as well as in off-site live fire tests Distribution.



**Thorax Impact Test Device**

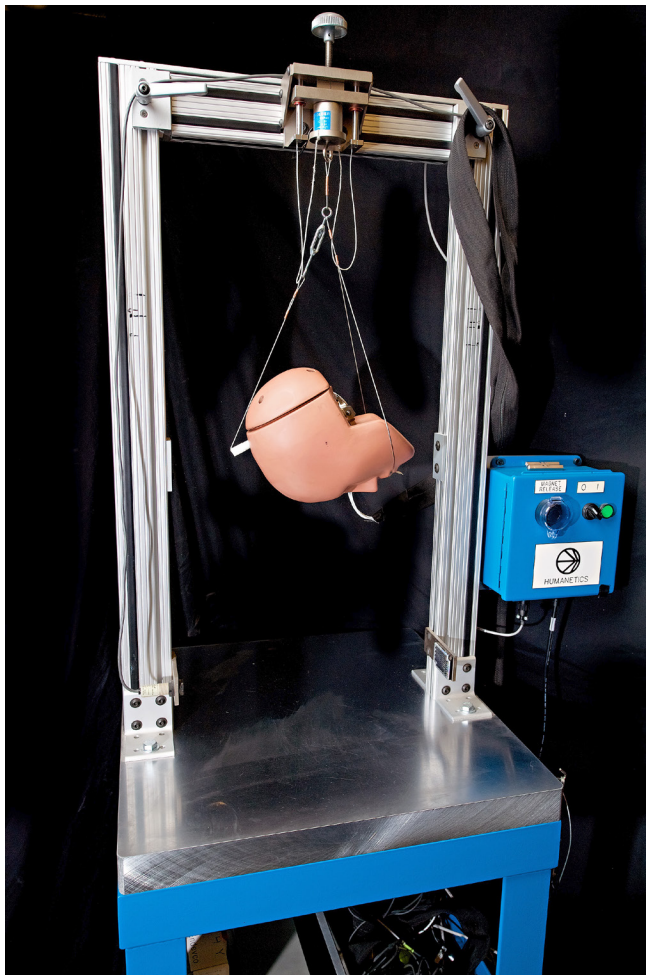


**Neck Pendulum Test Device**

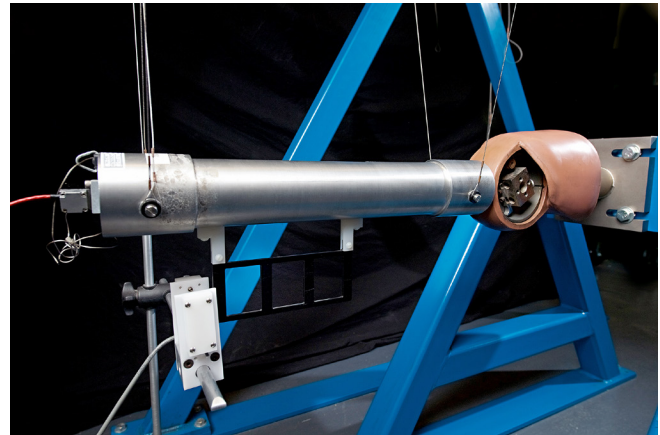
## GROUND VEHICLE SURVIVABILITY & PROTECTION (GVSP)

### KEY CAPABILITIES

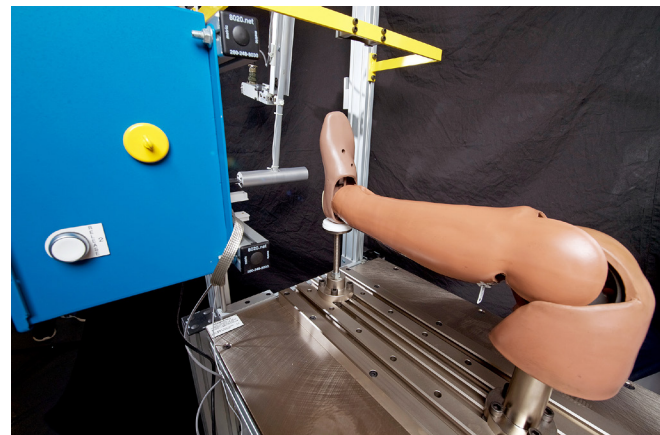
- Test fixtures to certify each body region of an ATD (head, neck, knee, thorax, foot)
- Compliant with CFR 49, Part 572 ATD
- Instrumentation conforms to SAE J211 standards
- 5th, 50th, 95th Hybrid III ATD and WIAMan (Warrior Injury Assessment Manikin)



Head Drop Test Device



Knee Impact Test Device



Foot Impact Test Device